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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/667,015	09/18/2003	Michael W. Vice	10030015	9129

7590 11/30/2004
AGILENT TECHNOLOGIES, INC.
Intellectual Property Administration
Legal Department, DL429
P.O. Box 7599
Loveland, CO 80537-0599

EXAMINER

CHOE, HENRY

ART UNIT	PAPER NUMBER
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2817

DATE MAILED: 11/30/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No. 10/667,015	Applicant(s) VICE, MICHAEL W.	
	Examiner Henry K Choe	Art Unit 2817	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 18 September 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 18 September 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1, 2, 5, 11, 12 and 15 are rejected under 35 U.S.C. 102(b) as being anticipated by Forbes et al (Fig. 1A).

Regarding claims 1 and 11, Forbes et al (Fig. 1A) discloses an amplifier circuit comprising a first stage (110) and a second stage (120), a first component (103A) and a second component (102B) which are coupled in series between the first (110) and second (120) stages, wherein the first component (103A) selected to provide AC decoupling of the first (110) and second (120) stages and the second component (102B) selected to provide for a stability.

Regarding claims 2 and 12, the first component (103A) is an inductor.

Regarding claims 5 and 15, the second component (102B) is a resistor.

Claims 1, 7, 9, 11, 17 and 19 are rejected under 35 U.S.C. 102(b) as being anticipated by Jacobs (Fig. 1).

Regarding claims 1 and 11, Jacobs (Fig. 1) discloses an amplifier circuit comprising a first stage (Q2) and a second stage (Q3), a first component (LMAG) and a second component (RPRI) which are coupled in series between the first (Q2) and second (Q3) stages, wherein the first component (LMAG) selected to provide AC

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decoupling of the first (Q2) and second (Q3) stages and the second component (RPRI) selected to provide for a stability.

Regarding claims 7 and 17, the first stage (Q2) is a common source stage and the second stage (Q3) is a common drain stage.

Regarding claims 9 and 19, the second component (RPRI) is a resistor arranged in series with a capacitor (CSENSE) in a feedback circuit.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 4, 6, 13, 14 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Forbes et al (Fig. 1A).

Forbes et al (Fig. 1A) discloses all the limitations in the claims except for that the inductor has a value that is selected to decouple the first and second stages, the value of the inductor is selected in response to a lowest desired operating frequency of the amplifier, and the resistor has a value that is selected to maintain the stability of the amplifier. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have implemented the specific values of the components, since they are based on the routine experimentation to obtain the optimum operating parameters.

Claims 8, 10, 18 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Jacobs (Fig. 1).

Jacobs (Fig. 1) discloses all the limitations in the claims except for that the inductor has a value that is selected to decouple a transistor in the common source stage from a transistor in the common drain stage, and the resistor is selected to provide the stability in the amplifier by causing a loss in the feedback circuit. It would have been obvious to one of ordinary skill in the art at the time the invention was made

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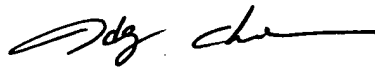
to have implemented the specific values of the components, since they are based on the routine experimentation to obtain the optimum operating parameters.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Patent number (6,704,559) is the cascode amplifier.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Henry Choe whose telephone number is (571) 272-1760.



**HENRY CHOE
PRIMARY EXAMINER**

#944